From: MCOVENTR--VAU0002A Date and time 02/14/92 14:27:52
To: CWALL --VUS0212A Charles Wall

From: Phil Francis
Subject: ATRF

Chuck

Following are some research projects presently being funded by the ATRF.

- The effects of type 1 diabetes mellitus and of tobacco smoke on dissipation of catecholamines in pulmonary endothelial cells - a non-neuronal site of uptake.
- Fetal hypoxia and lung development.
- The effects of active and passive smoking, in a rat model, on pulmonary endothelial cell function: Dissipation of catecholamines and responses to vasoactive agents.
- Inhibition of lung cancer development by antibodies to angiogenic growth factors.
- Role of lymphocytes in the pathogenesis of particle-induced pulmonary fibrosis.
- Glutathione S-Transferase deficiency and susceptibility to cancer. Similar to Papaconstantinou proposal
- Cigarette smoking and upper gastrointestinal dysmotility in peptic ulcer disease.
- The action of nicotine on synaptic transmission in isolated hippocampal slices.
- Modulation of the nicotinic acetylcholine receptor.
- Brain monoamine oxidase activity and the effect of smoking.
- Signal transduction mechanisms in macrophage activation; influence of endogenous and exogenous nitric oxide.
- Macrophages and the production of inflammatory mediators.
- Regulation of eicosanoid generation in activated macrophages.
- Macrophage activation reduces mobilisation of arachidonic acid by guinea-pig and rat peritoneal macrophages in vitro.

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- The role of cigarette smoke in enhancing uptake of low density lipoproteins by macrophages.

- Determinants of smoking behaviour among Australian adolescents.

- Development, implementation and prospective evaluation of smoking prevention strategies for Australian adolescents.

Let me know if you require anything further.

Kind regards

Phil Francis

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